

**AMENDMENTS TO THE CLAIMS**

1. (Currently amended) [[An]]A signaling method for automatic repeat request comprising:  
receiving data frames from a mobile station at a base station; and  
selectively gating a physical layer radio channel to provide ACK and NACK indications  
responsive to the receipt of the data frames from the mobile station;  
wherein the physical layer radio channel is gated on to provide one of an ACK and a  
NACK indication to the mobile station; and  
wherein the physical layer radio channel is gated off to provide the other one of the ACK  
and NACK indications to the mobile station.
2. (Original) The signaling method of claim 1 wherein the physical layer radio channel is  
gated on to provide an ACK indication, and is gated off to provide a NACK indication.
3. (Original) The signaling method of claim 1 wherein the physical layer radio channel is  
gated on to provide a NACK indication, and is gated off to provide an ACK indication.
4. (Original) The signaling method of claim 1 wherein the physical layer radio channel is a  
time multiplexed channel and contains a logical ACK subchannel with a multiple time slots.
5. (Original) The method of claim 4 wherein the mobile station is assigned to selected time  
slots on the ACK subchannel and wherein the physical layer channel is gated on and off during  
the selected time slots to provide the ACK and NACK indications to the mobile station.
6. (Original) The method of claim 5 further comprising gating off the physical layer channel  
in the selected time slots on the ACK subchannel while the mobile station is idle.

7. (Original) The method of claim 1 further comprising repeating each ACK and NACK indication a predetermined number of times.
8. (Original) A radio base station comprising:
  - a receiver to receive data frames from a mobile station; and
  - a control unit to provide ACK and NACK indications to the mobile station, the control unit selectively gating a physical layer radio channel to provide ACK and NACK indications responsive to the receipt of the data frames from the mobile station; wherein the control unit gates the physical layer radio channel on to provide one of an ACK and a NACK indication to the mobile station; and
  - wherein the control unit gates the physical layer radio channel off to provide the other one of the ACK and NACK indications to the mobile station.
9. (Original) The radio base station of claim 8 wherein the control unit gates the physical layer radio channel on to provide an ACK indication, and gates the physical layer radio channel off to provide a NACK indication.
10. (Original) The radio base station of claim 8 wherein the control unit gates the physical layer radio channel on to provide a NACK indication, and gates the physical layer radio channel off to provide an ACK indication.
11. (Original) The radio base station of claim 8 wherein the physical layer radio channel is a time multiplexed channel and contains a logical ACK subchannel with multiple time slots.

12. (Original) The radio base station of claim 11 wherein the mobile station is assigned to selected time slots on the ACK subchannel and wherein the control unit gates the physical layer channel on and off during the selected time slots to provide the ACK and NACK indications to the mobile station.

13. (Original) The radio base station of claim 12 wherein the control unit gates the physical layer channel off in the selected time slots on the ACK subchannel while the mobile station is idle.

14. (Currently amended) The radio base station of claim [[1]] 8 further wherein the control unit repeats each ACK and NACK indication a predetermined number of times.

15. (Currently amended) [[An]] A signaling method for automatic repeat request comprising:  
receiving data packets from a mobile station at a base station;  
selectively gating a physical layer radio channel to acknowledge data packets received  
from the mobile station;  
wherein the physical layer radio channel is gated on to provide one of a positive  
acknowledgement and a negative acknowledgement and is gated off to provide  
the other one of the positive acknowledgement and the negative  
acknowledgment.

16. (Canceled)

17. (Canceled)

18. (Original) The signaling method of claim 15 wherein the physical layer radio channel is a time multiplexed channel and contains a logical ACK subchannel with multiple time slots.
19. (Original) The method of claim 18 wherein the mobile station is assigned to selected time slots on the ACK subchannel and wherein the physical layer channel is gated on and off during the selected time slots to provide the ACK and NACK indications to the mobile station.
20. (Original) The method of claim 19 further comprising gating off the physical layer channel in the selected time slots on the ACK subchannel while the mobile station is idle.
21. (Original) The method of claim 15 further comprising repeating each ACK and NACK indication a predetermined number of times.
22. (New) The method of claim 1, further comprising transmitting power control bits in time-multiplexed power control groups on a forward common power control channel, for power controlling a plurality of mobile stations, and defining an ACK subchannel on the forward common power control channel by allocating a number of power control group slots for sending ACK/NACK indications rather than power control bits, and wherein selectively gating a physical layer radio channel to provide ACK and NACK indications responsive to the receipt of the data frames from the mobile station comprises selectively gating the forward common power control on or off as needed for sending an ACK or a NACK to the mobile station at the power control group slots allocated for sending ACK/NACK indications to the mobile station.

23. (New) The radio base station of claim 8, wherein the radio base station is configured to transmit power control bits in time-multiplexed power control groups on a forward common power control channel, for power controlling a plurality of mobile stations, and wherein the control unit defines an ACK subchannel on the forward common power control channel by allocating a number of power control group slots for sending ACK/NACK indications rather than power control bits, and wherein the control unit selectively gates a physical layer radio channel to provide ACK and NACK indications responsive to the receipt of the data frames from the mobile station by selectively gating the forward common power control on or off as needed for sending an ACK or a NACK to the mobile station at the power control group slots allocated for sending ACK/NACK indications to the mobile station.

24. (New) The method of claim 15, further comprising transmitting power control bits in time-multiplexed power control groups on a forward common power control channel, for power controlling a plurality of mobile stations, and defining an ACK subchannel on the forward common power control channel by allocating a number of power control group slots for sending ACK/NACK indications rather than power control bits, and wherein selectively gating a physical layer radio channel to acknowledge data packets received from the mobile station comprises selectively gating the forward common power control on or off as needed for sending an ACK or a NACK to the mobile station at the power control group slots allocated for sending ACK/NACK indications to the mobile station.